LOW-MOLECULAR WEIGHT POLYTETRAFLUOROETHYLENE COMPOSITE POWDER AND ITS PRODUCTION

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Abstract of **JP10017785**

PROBLEM TO BE SOLVED: To produce a low-molecular weight polytetrafluoroethylene (PTFE) composite powder that can sufficiently develop inherent properties of mother particles, BN, talc, mica and sericite, provide water- and oil-repellency originated from daughter particles, low-molecular weight PTFE, and be used suitably as a cosmetic material, paint additive, and the like by a homogeneous complexing treatment efficiently and in a good working environment. SOLUTION: This low-molecular weight polytetrafluoroethylene (PTFE) composite powder is obtained by subjecting surfaces of at least one kind of mother particles selected from hexagonal boron nitride, talc, mica and sericite to surface modification treatment to electrostatically charge the particles with a positive charge, and then subjecting the particle surfaces to complexing treatment with daughter particles composed of polytetrafluoroethylene powder of average degree of polymerization of 200 or less, so that low-molecular weight polytetrafluoroethylene composite powder whose particle surfaces are modified to positively charged condition is formed by complexing treatment of mother particle surfaces with polytetrafluoroethylene powder of average degree of polymerization of 200 or less.

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